ABSTRACT OF THE DISCLOSURE

An apparatus and method for properly controlling an audio gain of an MP3 player according to the type of an audio output device connected to a mobile terminal with the MP3 player for reproducing MP3-formatted audio data into an audio signal. An ear jack transfers the audio signal output from the MP3 player to one of first and second audio output devices, connected thereto, and generates a sense signal indicating a type of the connected audio output device. A controller determines the type of the audio output device connected to the ear jack depending on the sense signal and controls an audio gain of the MP3 player according to the determined result. The first audio output device is an earphone and the second audio output device is an external speaker. The controller increases the audio gain when the external speaker is connected to the ear jack, and the controller decreases the audio gain when the earphone is connected to the ear jack.